

2006 UTRAC PROBLEM STATEMENT SUMMARY LIST - PRIORITIZED FOR FY07 FUNDING

Date: 1-Aug-06

<u>Research PIC</u> <u>No.</u>	<u>Group</u>	<u>Group</u> <u>Name</u>	<u>Prob No.</u>	<u>Problem Title</u>	<u>Submitted By</u>	<u>Champion</u>	<u>Proj Manager</u>	<u>Approx</u> <u>Budget</u>
UT06.102	1	Constr	06.01-2	Quality and Safety During Nighttime Construction Activities	Rob Wight	Rob Wight	D Hsiao	\$10,000
UT06.206	2	Maint	06.02-06	Pavement Distress in 9.5mm vs 12.5 Asphalt on Thin Overlays	Lloyd Neeley	Norton Thurgood	B Sharp	\$35,000
UT06.306	3	Mat'l & Pave	06.03-6	Validate Hamburg Wheel Tracker using Field Tested Superpave Mixes	Kevin VanFrank	Kevin VanFrank	D Anderson	\$60,000
UT06.404	4	Enviro	06.04-4	Development of an indirect wildlife impact methodology	Tom Twedt	Shane Marshall	M Fazio	\$96,000
UT06.506	5	Planning & Asset M	06.05-6	Seismic Vulnerability and Emergency Response of UDOT Lifelines	Steven Bartlett, Peter Martin, Steve Burian	Rich Clarke, Walt Steinvorth, Shana Lindsey	D Hsiao	\$90,000
UT06.603	6	Traf & Safety	06.06-3	A Safety Analysis of Fatigue and Drowsy Driving	Peter Tang & Grant Schultz	Peter Tang	D Anderson	\$39,500
UT06.706	7	Geot	06.07-6	Stone Column Treatment with Wick Drains in Silty Sands	Kyle Rollins	Jon Bischoff, Darin Sjoblom	B Leonard	\$30,000
UT06.801	8	Struct	06.08-1	Evaluation of Bridges for Seismic Retrofit	Keri Ryan	Boyd Wheeler	D Hsiao	\$120,000
UT06.901	9	Hydr	06.09-1	Fish Passage at Utah Culverts: Strategy, Assessment, and Design (also 06.04-5)	Rollin H Hotchkiss, Mark Belk, BYU	Michael Fazio, Brent Jensen, Denis Stuhff	M Fazio	\$74,000
UT06.703	7	Geot	06.07-3	Assessment of mud balance test for Quality Assurance in Ground Anchor Installation (also 06.03-3)	Clifton Farnsworth	Clifton Farnsworth, Jim Golden	B Leonard	\$4,000
UT06.103	1	Constr	06.01-3	GIS Project Tracking Website (see also 06.05-11)	Ed Rock	Ed Rock - ETS	K Berg	\$95,000
UT06.602	6	Traf & Safety	06.06-2	Evaluation of the Safety and Design Integrity of Two-Lane Rural Highways Using the Interactive Highway Safety Design Model (IHSDM) Developed by FHWA	Mitsuru Saito	Robert Hull	D Anderson	\$47,700
UT06.302	3	Mat'l & Pave	06.03-2	Asset Improvement Tracking – (construction history) (also 06.05-5)	Gary Kuhl & Bill Lawrence	Kim Schvaneveldt, Gary Kuhl, Bill Lawrence	D Anderson	\$30,000
UT06.201	2	Maint	06.02-01	Install Avalanche Monitoring System	Liam Fitzgerald	Rukhsana Lindsey	A Wakil	\$100,000
UT06.710	7	Geot	06.07-10	Development of MSE Wall Inspection Plan Based on Failure Mode Analysis and Risk Assessment	Jim Bay & Loren Anderson	Jon Bischoff	B Leonard	\$40,000
UT06.705	7	Geot	06.07-5	Improved Performance of MSE Walls	Travis Gerber	Darin Sjoblom	B Leonard	\$25,000

UT06.902	9	Hydr	06.09-2	Estimating Peak Flow Statistics for Ungaged Streams in Utah-Development of Regional Flow Characteristic Regression Models and web-based, GIS Model User Interface	Patrick M. Lambert, USGS	Michael Fazio	M Fazio	\$35,000
UT06.507	5	Planning & Asset M	06.05-7	Calibration and Validation of I-15 VISSIM model	Peter T. Martin and Aleksandar Stevanovic	Eric Rasband, Michael Kaczorowski	M Fazio	\$30,000
UT06.802	8	Struct	06.08-2	Calibration of AASHTOs New Prestress Loss Design Equations	Paul Barr/Marv Halling	Boyd Wheeler	D Hsiao	\$80,000